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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/627,162	07/25/2003	Stephan Kirchmeyer	CH-7855/STA-211	2513	
157 RAVER MATI	157 7590 08/14/2007 BAYER MATERIAL SCIENCE LLC			EXAMINER	
100 BAYER ROAD			RONESI, VICKEY M		
PITTSBURGH	I, PA 15205		ART UNIT	PAPER NUMBER	
			1714		
			MAIL DATE	DELIVERY MODE	
•			08/14/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

· · · · · · · · · · · · · · · · · · ·	Application No.	Applicant(s)			
	10/627,162	KIRCHMEYER ET AL.			
Office Action Summary	Examiner	Art Unit			
	Vickey Ronesi	1714			
The MAILING DATE of this communication Period for Reply	appears on the cover sheet	with the correspondence address			
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory per  - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	C DATE OF THIS COMMUN R 1.136(a). In no event, however, may nod will apply and will expire SIX (6) Mo atule, cause the application to become	NICATION. a reply be timely filed  ONTHS from the mailing date of this communication.  ABANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 0	7 June 2007.				
2a)⊠ This action is <b>FINAL</b> . 2b)□ T	This action is <b>FINAL</b> . 2b) This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C	.D. 11, 453 O.G. 213.			
Disposition of Claims		the transfer of the second			
4) ⊠ Claim(s) 7-26 is/are pending in the applicat 4a) Of the above claim(s) is/are without 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 7-26 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction an	drawn from consideration.				
Application Papers					
9) The specification is objected to by the Exam 10) The drawing(s) filed on is/are: a) a Applicant may not request that any objection to Replacement drawing sheet(s) including the cor 11) The oath or declaration is objected to by the	accepted or b)  objected t the drawing(s) be held in abey rection is required if the drawin	rance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:  1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International Bur * See the attached detailed Office action for a	ents have been received. ents have been received in priority documents have been reau (PCT Rule 17.2(a)).	Application No en received in this National Stage			
•	- 1				
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper N	w Summary (PTO-413) lo(s)/Mail Date f Informal Patent Application			

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#### **DETAILED ACTION**

- 1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior office action.
- 2. The new grounds of rejection set forth below are necessitated by applicant's amendment filed on 6/7/2007. In particular, claims 11-26 are new. Thus, the following action is properly made final.

### Claim Objections

3. Claims 15 and 16 are objected to because "trfluoromethanesulfonic" is misspelled and should read as --trifluoromethanesulfonic-- and there should be a comma between "benzenesulfonic" and "methanesulfonic".

Appropriate correction is required.

#### Claim Rejections - 35 USC § 103

4. Claims 7-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jonas et al (US 5,300,575) in view of Moehwald (US 4,728,399).

With respect to claims 7-10, the rejection is adequately set forth in paragraph 4 of Office action mailed on 12/8/2006 and is incorporated here by reference.

With respect to new claims 11-16, Jonas teaches the use of strong acids to decrease pH in order to increase polymerization rate (col. 4, lines 22-25). Those acids include hydrochloric acid, sulfonic acid, and aromatic sulfonic acids. Given that Jonas teaches the use of strong acids

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which intrinsically decreases the pH, including pH as low as presently claimed, in order to increase polymerization rate, it would have been obvious to one of ordinary skill in the art to having a pH of 1.0 or less.

With respect to new claims 17-24, Jonas et al teaches that the oxidizing agent is used in an amount of 0.1-2 equivalents per mol thiophene (col. 4, lines 15-21).

With respect to new claims 25 and 26, Jonas et al discloses that the solvent during polymerization is preferably water (col. 3, line 23).

## Response to Arguments

5. Applicant's arguments filed on 6/7/2007 have been fully considered but they are not persuasive. Specifically, applicant argues that unexpected results with respect to light transmission and conductivity are obtained by the use of peroxodisulfuric acid and a low pH-value.

In response, applicant's assertion of unexpected results has been considered, however, there is insufficient evidence to support such a claim. First, proper side-by-side examples have not been provided which can clearly establish unexpected results. In particular, Examples 13 and 15-18 and Comparative Example 3 are not proper side-by-side examples since there is less peroxodisulfuric acid oxidizing agent in Examples 13 and 15-18 (even when converted to molar amounts) than the sodium peroxodisulfate oxidizing agent in Comparative Example 3.

Therefore, applicant has not established that a low pH like presently claimed results in improved transparency and conductivity (note that Example 14 shows that the oxidizing agent need not be peroxodisulfuric acid in order to impart desirable properties and that the type of oxidizing agent

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is not critical). Second, the inventive data and comparative data are not reasonably commensurate in scope with the scope of the claims. Case law holds that evidence is insufficient to rebut a *prima facie* case if not commensurate in scope with the claimed invention. *In re Grasselli*, 713 F.2d 731, 741, 218 USPQ 769, 777 (Fed. Cir. 1983). Specifically, the types of polyanion and solvents are not reasonably commensurate in scope.

#### Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vickey Ronesi whose telephone number is (571) 272-2701. The examiner can normally be reached on Monday - Friday, 8:30 a.m. - 5:00 p.m.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on (571) 272-1119. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

8/8/2007 Vickey Ronesi

> /Vasu Jagannathan/ Supervisory Patent Examiner Technology Center 1700